

Title (en)  
VIDEO SMOKE DETECTION SYSTEM

Title (de)  
VIDEO-RAUCHDETEKTIONSSYSTEM

Title (fr)  
SYSTEME DE DETECTION DE FUMEE BASE SUR LA VIDEO

Publication  
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Application  
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Abstract (en)  
[origin: WO02054364A2] The invention relates to a video smoke detection system comprising at least one device for recording video images (A) and one signal processing step, wherein the illuminosity of a single pixel or a group of pixels in the video images (A) is determined. The illuminosity of the pixel is determined by means of a process wherein a value representing the illuminosity is obtained. The temporal progression of the above-mentioned value is examined for characteristic changes in the presence of smoke. Determination of the illuminosity of the pixel occurs by means of an edge extraction process (5), whereby an edge value is associated with each pixel. The edge extraction process (5) also takes place after examination of the video images (A) for movement, designated as movement detection (7). Determination of the edge values and movement detection (7) occur by means of digital images (6, 8) which are continuously updated by a hysteresis algorithm.

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